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## SEQUENCE LISTING

<110> Applied Research Systems ARS Holding N.V.  
<120> Novel leader sequences for use in production of proteins  
<130> 884 WO  
<160> 58  
<170> PatentIn version 3.1  
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<222> (1)..(19)  
<223> murine immunoglobulin signal peptide

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<222> (20)..(29)  
<223> human tissue plasminogen activator propeptide

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Met Lys Cys Ser Trp Val Ile Phe Phe Leu Met Ala Val Val Thr Gly  
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Val Asn Ser Ser Gln Glu Ile His Ala Arg Phe Arg Arg  
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<212> PRT  
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Gly Ala Arg  
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Val Asn Ser

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Gly

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agccccagcc aggagatcca cgccagggtt cgcagaggcg ccaga 105

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Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser  
1 5 10 15

Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys  
20 25 30

Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser  
35 40 45

Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys  
50 55 60

Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp

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65

70

75

80

Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp  
85 90 95

Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly  
100 105 110

Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val Cys Thr Cys  
115 120 125

His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn  
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Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu  
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Asn

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Asp Tyr Thr Asp Glu Ser Cys Thr Phe Lys Ile Ser Leu Arg Asn Phe  
35 40 45

Arg Ser Ile Leu Ser Trp Glu Leu Lys Asn His Ser Ile Val Pro Thr  
50 55 60

His Tyr Thr Leu Leu Tyr Thr Ile Met Ser Lys Pro Glu Asp Leu Lys  
65 70 75 80

Val Val Lys Asn Cys Ala Asn Thr Thr Arg Ser Phe Cys Asp Leu Thr  
85 90 95

Asp Glu Trp Arg Ser Thr His Glu Ala Tyr Val Thr Val Leu Glu Gly  
100 105 110

Phe Ser Gly Asn Thr Thr Leu Phe Ser Cys Ser His Asn Phe Trp Leu  
115 120 125

Ala Ile Asp Met Ser Phe Glu Pro Pro Glu Phe Glu Ile Val Gly Phe  
130 135 140

Thr Asn His Ile Asn Val Met Val Lys Phe Pro Ser Ile Val Glu Glu  
145 150 155 160

Glu Leu Gln Phe Asp Leu Ser Leu Val Ile Glu Glu Gln Ser Glu Gly  
165 170 175

Ile Val Lys Lys His Lys Pro Glu Ile Lys Gly Asn Met Ser Gly Asn  
180 185 190

Phe Thr Tyr Ile Ile Asp Lys Leu Ile Pro Asn Thr Asn Tyr Cys Val  
195 200 205

Ser Val Tyr Leu Glu His Ser Asp Glu Gln Ala Val Ile Lys Ser Pro  
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tgccgcgagt gcgagagcg cagttcacc gccagcgaga accacctgcg ccactgcctg 180  
agctgcagca agtgcgcaca ggagatggc caggtggaga tcagcagctg caccgtggac 240  
cgcgacaccg tgtgcggctg ccgcaagaac cagtaccgcc actactggag cgagaacctg 300  
ttccagtgtcaactgcag cctgtgcctg aacggcaccc tgacacctgag ctgccaggag 360  
aagcagaaca ccgtgtgcac ctgccacgcc ggcttcctcc tgcgcgagaa cgagtgcgtg 420  
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